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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/043,671	01/11/2002	Hiromu Kitamura	15215	8218	
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SCULLY SCOTT MURPHY & PRESSER, PC			WEST, L	WEST, LEWIS G	
400 GARDEN CITY PLAZA GARDEN CITY, NY 11530			ART UNIT	PAPER NUMBER	
GMODEN	.,		2682	<u> </u>	
			DATE MAILED: 04/22/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/043,671 KITAMURA ET AL.	
Office Action Summary	Examiner	Art Unit
	Lewis G. West	2682
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 11 Ja 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. ace except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on 30 October 2002 is/are: Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original of the correction of the original of the original of the correction of the original or	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See on is required if the drawing(s) is objective.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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Claim Objections

Claims 9 and 10 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The limitations of claim 9 and 10 describing the lighting device and diffuser are duplicates of limitations found in claim and therefore do not further limit the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4-5 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kenmochi.

Regarding claim 1, Kenmochi discloses a portable telephone comprising: a plurality of input buttons for inputting various indications; at least one light emitting element which emits a light; (4)

at least one diffuser which is located under said a plurality of input buttons and which diffuses said light emitted from said light emitting element; (2) said diffuser including:

an incidence portion which has a receiving plane positioned near said light emitting element and receiving said light emitted from said light emitting element;

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and a projecting portion which has a reflecting plane for reflecting said light received by said incidence portion to an upper side of said a plurality of input buttons. (Col. 4 lines 17-41)

Kenmochi does not expressly disclose lighting the buttons when any one of said a plurality of input buttons is pushed on. Examiner takes official notice that lighting buttons on a portable phone when a button is pressed is notoriously well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to light the keyboard when a key is pressed in order to overcome at least the problem of seeing the keys in a poorly lit area, and saving power by waiting to light until the key is pressed, both of which are known problems in the prior art which have been previously addressed by this solution.

Regarding claim 4, a portable telephone as claimed in claim 2, wherein concave and convex are formed on a surface of said receiving plane of said incidence portion. (Col. 4 lines 17-41)

Regarding claim 5, Kenmochi discloses a portable telephone as claimed in claim 1, wherein said light emitting element is a light emitting diode. (Col. 4 lines 17-41)

Regarding claim 8, a portable telephone as claimed in claim 4, wherein said light emitting element is a light emitting diode. (Col. 4 lines 17-41)

Regarding claim 9, Kenmochi discloses a diffuser located under the input buttons of said portable telephone as claimed in claim 1, wherein said diffuser comprises:

an incidence portion which has a receiving plane for receiving a light emitted from said light emitting element; and a projecting portion which has a reflecting plane for reflecting said light received by said incidence portion to an upper side of said a plurality of input buttons. (Col. 4 lines 17-41)

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Regarding claim 10, Kenmochi discloses a lighting device located near the input buttons of said portable telephone as claimed in claim 1, wherein said lighting device further comprises: at least one light emitting element which emits a light when any one of said a plurality of input buttons is pushed on; at least one diffuser which diffuses said light emitted from said light emitting element; said diffuser further comprising: an incidence portion which has a receiving plane for receiving a light emitted from said light emitting element; and a projecting portion which has a reflecting plane for reflecting said light received by said incidence portion to an upper side of said a plurality of input buttons. (Col. 4 lines 17-41)

Claims 1, 3, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parker (5,975,711).

Regarding claim 1, Parker discloses a portable telephone comprising: a plurality of input buttons for inputting various indications; at least one light emitting element which emits a light;

(6)

at least one diffuser which is located under said a plurality of input buttons and which diffuses said light emitted from said light emitting element; said diffuser including:

an incidence portion which has a receiving plane positioned near said light emitting element and receiving said light emitted from said light emitting element;

and a projecting portion which has a reflecting plane for reflecting said light received by said incidence portion to an upper side of said a plurality of input buttons. (Col. 6 lines 14-54)

Parker does not expressly disclose lighting the buttons when any one of said a plurality of input buttons is pushed on. Examiner takes official notice that lighting buttons on a portable

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phone when a button is pressed is notoriously well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to light the keyboard when a key is pressed in order to overcome at least the problem of seeing the keys in a poorly lit area, and saving power by waiting to light until the key is pressed, both of which are known problems in the prior art which have been previously addressed by this solution.

Regarding claim 3, a portable telephone as claimed in claim 1, wherein concave and convex are formed on a surface of said receiving plane of said incidence portion. (Col. 6 lines 14-54)

Regarding claim 7, a portable telephone as claimed in claim 3, wherein said light emitting element is a light emitting diode. (Col. 5 lines 1-9)

Claims 1, 2, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khufus (4,349,705).

Regarding claim 1, Khufus discloses a portable telephone comprising: a plurality of input buttons for inputting various indications; at least one light emitting element which emits a light;

at least one diffuser which is located under said a plurality of input buttons and which diffuses said light emitted from said light emitting element; said diffuser including:

an incidence portion which has a receiving plane positioned near said light emitting element and receiving said light emitted from said light emitting element;

and a projecting portion which has a reflecting plane for reflecting said light received by said incidence portion to an upper side of said a plurality of input buttons. (Col. 3 lines 26-39)

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Parker does not expressly disclose lighting the buttons when any one of said a plurality of input buttons is pushed on. Examiner takes official notice that lighting buttons on a portable phone when a button is pressed is notoriously well known in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to light the keyboard when a key is pressed in order to overcome at least the problem of seeing the keys in a poorly lit area, and saving power by waiting to light until the key is pressed, both of which are known problems in the prior art which have been previously addressed by this solution.

Regarding claim 2, a portable telephone as claimed in claim 1, wherein said receiving plane of said incidence portion is a part of an arc any portions of which has an equal distance from said light emitting element. (Col. 3 lines 26-39)

Regarding claim 6, a portable telephone as claimed in claim 2, wherein said light emitting element is a light emitting diode. (Col. 3 lines 26-39)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Messel (US 6,550,927) discloses a backlit keypad with concave reflective surfaces.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lewis G. West whose telephone number is 703-308-9298. The examiner can normally be reached on Monday-Thursday 6:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 703-308-6739. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lewis West

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April 15, 2004

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